

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A multi-layered flooring composite, said composite including:

a substantially horizontal top floor layer of substantially hard material,
a subfloor layer of substantially hard material, and
at least one acoustic layer positioned between said top floor layer and said subfloor layer, said acoustic layer including a plurality of discrete beads of substantially elastic, resilient material,

wherein portions of adjacent beads abut one another and other portions of said adjacent beads are spaced from each other to create spaces therebetween that permit the flow of liquid through the acoustic layer, and

wherein substantially all of said adjacent beads are integrally joined together at the abutting portions thereof.

2. (Original) The flooring composite of claim 1 wherein at least some of said beads have substantially truncated spherical shapes.

3. (Original) The flooring composite of claim 2 wherein substantially all of said beads have truncated spherical shapes with at least one substantially flat, horizontal surface.

4. (Original) The flooring composite of claim 3 wherein at least some of said at least one flat, substantially horizontal surfaces of said beads are substantially coplanar.

5. (Original) The flooring composite of claim 4 wherein said coplanar surfaces are positioned substantially adjacent said top floor layer.

6. (Original) The flooring composite of claim 4 wherein said coplanar surfaces are positioned in a substantially abutting relationship with said top floor layer.

7. (Original) The flooring composite of claim 4 wherein said coplanar surfaces are positioned in an abutting relationship with said top floor layer.

8. (Original) The flooring composite of claim 7 wherein any moisture between said top floor layer and said acoustic layer can be received in said spaces between said other portions of said adjacent beads.

9. (Original) The flooring composite of claim 8 wherein said spaces between said other portions of said adjacent beads are in fluid communication with one another.

10. (Original) The flooring composite of claim 1 wherein at least some of said beads have substantially truncated spherical shapes with at least two substantially flat surfaces.

11. (Original) The flooring composite of claim 10 where said at least two substantially flat surfaces of said some beads are spaced from one another and substantially parallel to each other.

12. (Original) The flooring composite of claim 11 wherein said at least two substantially flat, parallel surfaces of said some beads are substantially coplanar with corresponding flat surfaces of each other.

13. (Original) The flooring composite of claim 1 further including a substantially moisture-proof film layer positioned adjacent said acoustic layer.

14. (Original) The flooring composite of claim 1 further including a substantially moisture-proof film layer positioned below said acoustic layer between said acoustic layer and said subfloor layer.

15. (Original) The flooring composite of claim 14 wherein said film layer is integrally joined to at least some of said beads.

16. (Original) The flooring composite of claim 1 further including a substantially moisture-proof film layer positioned above said acoustic layer between said acoustic layer and said top floor layer.

17-18. (Canceled).

19. (Previously Presented) The flooring composite of claim 1 wherein said discrete beads of substantially elastic, resilient material are made of a closed cell foam.

20. (Previously Presented) The flooring composite of claim 19 wherein said closed cell foam is one of the group consisting of polypropylene and polyethylene.

21. (Original) The flooring composite of claim 1 wherein the density of said acoustic layer is about two to ten pounds per cubic foot.

22. (Original) The flooring composite of claim 1 wherein said spaces between said other portions of said adjacent beads are in fluid communication with one another.

23. (Original) The flooring composite of claim 1 wherein said acoustic layer has a thickness and substantially all of said beads have a substantially truncated spherical shape wherein the projected diameters of said substantially spherical shapes are greater than said acoustic layer thickness.

24. (Original) The flooring composite of claim 23 wherein said acoustic layer thickness is about 1/8 inch and said projected diameters are greater than 1/8 inch.

25. (Original) The flooring composite of claim 24 wherein said projected bead diameters are substantially the same.

26. (Original) The flooring composite of claim 25 wherein said projected bead diameters are about 1/4 inch.

27. (Previously Presented) The flooring composite of claim 1 wherein the beads of said acoustic layer are made of a closed cell foam and are about 75%- 95% air.

28. (Original) The flooring composite of claim 1 wherein the spaces between said other portions of said adjacent beads make up about 35% to 45% of the total volume of the acoustic layer.

29. (Previously Presented) The flooring composite of claim 1, wherein the beads of said acoustic layer are made of a closed cell foam and the total volume of the acoustic layer including the beads and the spaces between said other portions of said adjacent beads is about 75% to 95% air.

30. (Previously Presented) The flooring composite of claim 1 wherein said acoustic layer further includes a plurality of inelastic beads mixed with said elastic beads with portions of some of the elastic beads abutting portions of adjacent inelastic beads and being integrally joined thereto.

31. (Currently Amended) A multi-layered flooring composite, said composite including:

a substantially horizontal upper layer of substantially hard material, and
a lower layer of substantially hard material, and
at least one acoustic layer positioned therebetween, said acoustic layer including a plurality of discrete beads of substantially elastic, resilient material,

wherein portions of adjacent beads abut one another and other portions of said adjacent beads are spaced from each other to create spaces therebetween that permit the flow of liquid through the acoustic layer.

32. (Original) The flooring composite of claim 31 wherein substantially all of said adjacent beads are integrally joined together at the abutting portions thereof.

33. (Canceled).

34. (Previously Presented) The flooring composite of claim 31 further including at least some beads made of inelastic material.

35. (Original) The flooring composite of claim 31 wherein said spaces between said other portions of said adjacent beads are in fluid communication with one another..

36. (Original) The flooring composite of claim 31 wherein at least some of said beads have substantially truncated spherical shapes.

37. (Original) The flooring composite of claim 31 wherein at least some of said beads have truncated spherical shapes with at least one substantially flat, horizontal surface wherein at least some of said flat surfaces are coplanar.

38. (Original) The flooring composite of claim 32 wherein said coplanar surfaces are positioned substantially adjacent said upper layer.

39. (Original) The flooring composite of claim 31 further including a substantially moisture proof film layer positioned adjacent said acoustic layer.

40. (Original) The flooring composite of claim 31 further including non-woven fabric positioned atop said acoustic layer between the acoustic layer and the upper layer.

41. (Canceled).

42. (Previously Presented) The flooring composite of claim 31 wherein the beads of said acoustic layer are made of a closed cell foam and are about 75%- 95% air.

43. (Original) The flooring-composite of claim 31 wherein the spaces between said other portions of said adjacent beads make up about 35% to 45% of the total volume of the acoustic layer.

44. (Previously Presented) The flooring composite of claim 31 wherein the beads of said acoustic layer are made of said closed cell foam and the total volume of the acoustic layer including the beads and the spaces between said other portions of said adjacent beads is about 75% to 95% air.

45. (New) A multi-layered flooring composite comprising:
an upper layer formed from a substantially hard material;
a lower layer formed from a substantially hard material; and
at least one acoustic layer positioned between the upper layer and the lower layer, the acoustic layer including a plurality of discrete beads formed from a substantially elastic and resilient material, wherein portions of adjacent beads abut and are joined to one another, and wherein other portions of adjacent beads are spaced from each other and define spaces therebetween.